## **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

## **LISTING OF CLAIMS**

1. (Currently Amended) An antenna apparatus comprising:

a ground member having a length along a predetermined directional axis, the length being about a quarter or more of a wavelength of an electromagnetic wave used for communication; and

an antenna element extending in a direction substantially orthogonal to the directional axis and connected to the ground member;

wherein the antenna element is disposed substantially in the same plane as an end portion of the ground member with a predetermined distance provided therebetween.

## 2. (Cancelled)

3. (Original) The antenna apparatus according to Claim 1, wherein:

the antenna element comprises an antenna element main body and a feeder terminal; and

the antenna element main body and the feeder terminal cooperatively form a 1/4-wavelength inverted F antenna.

4. (Original) The antenna apparatus according to Claim 1, wherein:

the ground member further comprises a shielding member for shielding an electronic circuit.

- (Original) The antenna apparatus according to Claim 1, wherein:
   the ground member and the antenna element further comprise one piece.
- 6. (Original) A printed wiring board comprising:

a ground member having a length along a predetermined directional axis, the length being about a quarter or more of a wavelength of an electromagnetic wave used for communication; and

an antenna element extending in a direction substantially orthogonal to the directional axis and connected to the ground member;

wherein the ground member and the antenna element are printed wirings.

- 7. (Original) The printed wiring board according to Claim 6, wherein:
  the antenna element is disposed substantially in the same plane as an end
  portion of the ground member with a predetermined distance provided therebetween.
- 8. (Original) The printed wiring board according to Claim 6, wherein:
  the antenna element comprises an antenna element main body and a feeder terminal, and

the antenna element main body and the feeder terminal cooperatively form a 1/4-wavelength inverted F antenna.

(Original) The printed wiring board according to Claim 6, wherein:
 the ground member and the antenna element further comprise one piece.

10. (Currently Amended) A printed circuit board comprising:a printed wiring board;an electronic circuit disposed on the printed wiring board;

a ground member having a length along a predetermined directional axis, the length being about a quarter or more of a wavelength of an electromagnetic wave used for communication; and

an antenna element extending in a direction substantially orthogonal to the directional axis and connected to the ground member;

wherein the antenna element is disposed substantially in the same plane as an end portion of the ground member with a predetermined distance provided therebetween.

## 11. (Cancelled)

12. (Original) The printed circuit board according to Claim 10, wherein:

the antenna element comprises an antenna element main body and a feeder terminal, and

the antenna element main body and the feeder terminal cooperatively form a 1/4-wavelength inverted F antenna.

(Original) The printed circuit board according to Claim 10, wherein:
 the antenna element and the ground member further comprise one piece.

14. (Original) The printed circuit board according to Claim 10, wherein:
the antenna element further comprises a printed wiring on the printed wiring board; and

the ground member is a separate component from the printed wiring board.

- 15. (Original) The printed circuit board according to Claim 13, wherein:
  the ground member further comprises a shielding member for shielding the electronic circuit.
- 16. (Original) The printed circuit board according to Claim 15, further comprising: a ground pattern formed on the printed wiring board and electrically connected to the ground member.
- 17. (Original) The printed circuit board according to Claim 10, wherein: the antenna element and the ground member further comprise printed wirings on the printed wiring board.
- (Original) A communication adapter comprising:
   a printed wiring board;

an electronic circuit disposed on the printed wiring board;

a ground member having a length along a predetermined directional axis, the length being about a quarter or more of the wavelength of an electromagnetic wave used for communication;

an antenna element extending in a direction substantially orthogonal to the directional axis and connected to the ground member; and

a connector connection terminal;

wherein the connector connection terminal is disposed on a side toward which an antenna element main body of the antenna element extends in relation to the printed wiring board.

- 19. (Original) The communication adapter according to Claim 18, wherein: the antenna element further comprises a feeder terminal, and the antenna element main body and the feeder terminal cooperatively form an inverted F antenna.
- 20. (Original) Portable electronic equipment comprising the antenna apparatus according to Claim 1.
- 21. (Original) The portable electronic equipment according to Claim 20, wherein the portable electronic equipment further comprises a wrist watch.
- 22. (Original) The printed circuit board according to Claim 14, wherein:
  the ground member further comprises a shielding member for shielding the electronic circuit.
- 23. (Original) The printed circuit board according to Claim 22, further comprising: a ground pattern formed on the printed wiring board and electrically connected to the ground member.